Title (en)

WEANING READINESS INDICATOR, SLEEPING STATUS RECORDING DEVICE, AND AIR PROVIDING SYSTEM APPLYING NONLINEAR TIME-FREQUENCY ANALYSIS

Title (de)

ABSETZBEREITSCHAFTSINDIKATOR, SCHLAFSTATUSAUFZEICHNUNGSVORRICHTUNG UND LUFTBEREITSTELLUNGSSYSTEM UNTER VERWENDUNG VON NICHTLINEARER ZEITFREQUENZANALYSE

Title (fr)

INDICATEUR DE MATURITÉ POUR LE SEVRAGE, DISPOSITIF D'ENREGISTREMENT DE L'ÉTAT DE SOMMEIL, ET SYSTÈME DE FOURNITURE D'AIR APPLIQUANT UNE ANALYSE TEMPS-FRÉQUENCE NON LINÉAIRE

Publication

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Application

EP 15848444 A 20151008

Priority

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Abstract (en)

[origin: WO2016057806A1] A weaning readiness indicator is disclosed. The weaning readiness indicator includes a monitor, a memory, a processor, and a display. The monitor monitors a ventilated patient for a predetermined time length and generates a respiratory signal. The memory stores an algorithm, where the algorithm includes performing a nonlinear time frequency analysis on the respiratory signal to obtain a time frequency representation function, extracting one or more features from the time frequency representation function, and computing a weaning readiness index based on the one or more features. The processor is connected to the monitor and the memory, and executes the algorithm. The display is connected to the processor and provides an indication of the weaning readiness index of the ventilated patient. A sleeping status recording device and an air providing system applying nonlinear time frequency analysis are also disclosed.

IPC 8 full level

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